

Complete #25 on page 557

25)

(a) upper tail (looking ABOVE the claim).

(b) Saying the stands can hold more than 500 lbs, when they really can't

(c) Saying the stands can not hold more than 500 lbs when they really can

WARM UP: PART 2

1) I have a 1 sample t- Interval that is (159.8, 163.4).

(a) What is my sample mean?

(b) What is my margin of error?

(c) Given that the sample size is 100, and the sample std. deviation is 10.1, what is my level of confidence?

(a) $\bar{x} = 161.6$

(b) $m = 1.8$

(c) $1.8 = t^* \left(\frac{10.1}{\sqrt{100}} \right)$

$t^* = 1.782$

$P(-1.782 < t < 1.782) = \text{tcdf}(-1.782, 1.782, 99)$
 $= 92.22\% \text{ confidence}$